

10/04/13

Agenda

- Opener
- Review Homework 2.3 day 2
 - p. 98-100 (30-50 evens, 56-58, 75-80)
- Section 2.1-2.3 - Review
 - Word problems
 - In class worksheet

QUIZ on MONDAY!!!

Section 2.1-2.3 - Solving Equations Word Problems

Word Problem:

Noah and Kate are shopping for new guitar strings. Noah buys 2 packs of guitar strings. Kate buys 2 packs of guitar strings and a music book. The music book is \$16. Their total cost is \$72. How much is a pack of guitar strings?

Key Info.

NOAH - 2 PACKS BOOK = \$16
 KATE - 2 PACKS + BOOK TOTAL \$72
 S = PACKS GUITAR STRINGS

Equation

$$\text{NOAH'S COSTS} + \text{KATE'S COSTS} = \text{TOTAL}$$

$$(\underline{2s}) + (\underline{2s} + 16) = 72$$

Solution

$$\begin{array}{r} 4s + 16 = 72 \\ -16 \quad -16 \\ \hline 4s = 56 \\ \hline 4 \quad 4 \\ \hline s = 14 \end{array}$$

Section 2.1-2.3 - Solving Equations Word Problems

Word Problem:

General admission tickets to the fair cost \$3.50 per person. Ride passes cost an additional \$5.50 per person. Parking costs \$6 for the family. The total costs for rides passes and parking was \$51. How many people in the family attended the fair?

Key Info.

Equation

Solution

PEOPLE
1

$$3.50 + 6.00$$

$$2 \quad 3.50 + 3.50 + 6.00$$

$$3 \quad 3.50 + 3.50 + 3.50 + 6.00$$

$$4 \quad (3.50)(4) + 6$$

$$5 \quad (3.50)(5) + 6$$

$x = \frac{\# \text{ OF PEOPLE}}{\text{PEOPLE}}$

$$(3.50)(\frac{\# \text{ OF PEOPLE}}{\text{PEOPLE}}) + 6$$

$$(5.50 + 3.50)x + 6$$

$$(5.50 + 3.50)x + 6 = 51$$

$$(9.00)x + 6 = 51$$

$$\begin{array}{r} (9.00)x + 6 = 51 \\ -6 \quad -6 \\ \hline \end{array}$$

$$9x = 45$$

$$\frac{9x}{9} = \frac{45}{9}$$

$$x = 5$$

$$3.50 - 6$$

$$3.50 \cdot 2 + 6$$

$$3.50 \cdot 3 + 6$$

$$3.50 \cdot 4 + 6$$

$$3.50 \cdot (\# \text{ of people}) + 6$$

$$3.50x + 6$$

$$5x - 18 - 4x = -36$$

$$\begin{array}{r} x - 18 = -36 \\ +18 \quad +18 \\ \hline \end{array}$$